

LBNL Demand to Grid (D2G) Lab Overview

Goal: Provide a demonstration and testing laboratory for Open Automated Demand Response (OpenADR) standards, Automated DR (Auto-DR) technologies, and related Smart Grid activities.

Research & Demonstration Areas:

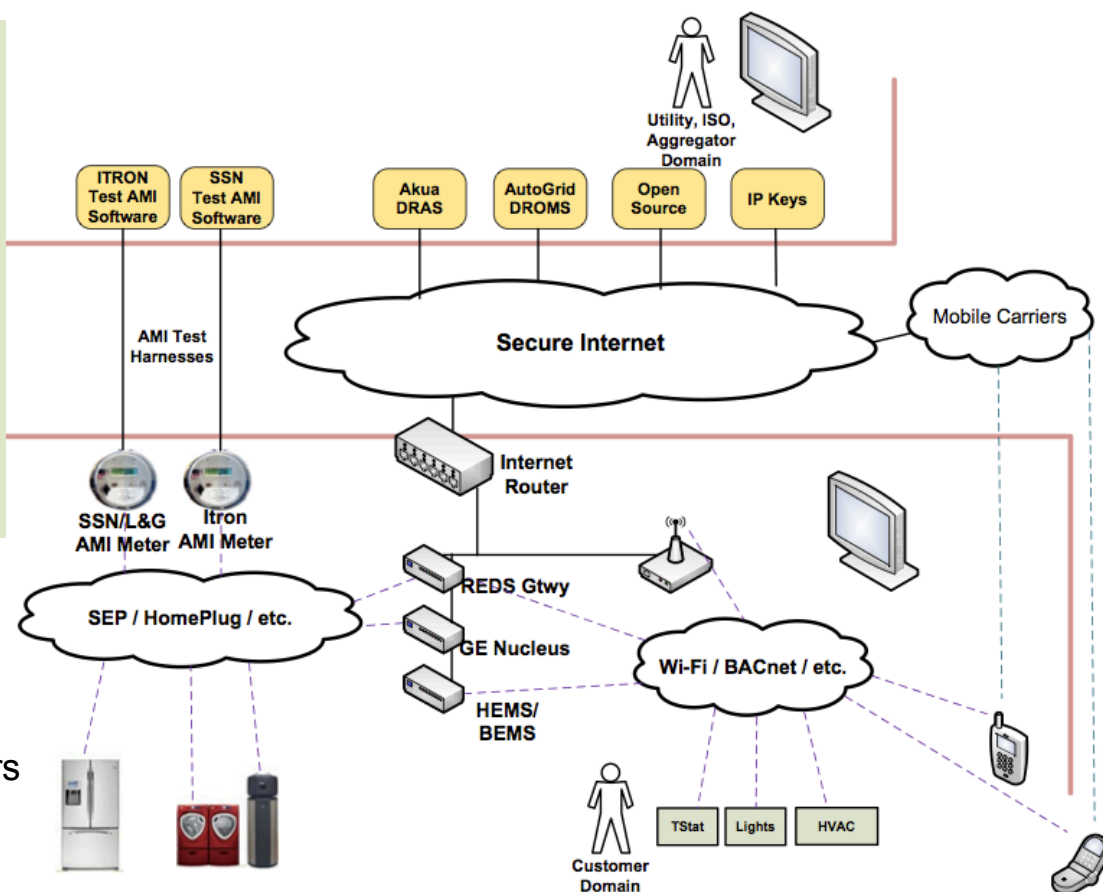
- *OpenADR 1.0 Open Source Toolkit and Commercial Servers.*
- *Residential Appliances and HAN Integration.*
- *OpenADR Technologies, Systems, and Strategies for End-Uses.*
- *Electric Vehicle Chargers.*
- *DR / Auto-DR Simulation Systems.*
- *Industrial, Agriculture, and Water Systems.*

Status:

- D2G Appliance Research Lab is functional.
- Includes Wi-Fi/ OpenADR enabled devices.
- End-use integration with OpenADR servers.
 - HVAC, lights, thermostats, EV chargers

D2G Lab will be part of Facility for Low Energy eXperiments (FLEX) in Buildings.

<http://utbf.lbl.gov/>



Generic D2G Lab Communication Architecture for Facilities/ End-uses

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